

105. (Amended) A recombinant or synthetic polynucleotide encoding a vertebrate telomerase reverse transcriptase, which has telomerase activity when associated with telomerase RNA component and contains at least one of the following motifs: FFYxTE (SEQ ID NO:71), RKxxWxxL (SEQ ID NO:477), RxIPK (amino acids 2-6 of SEQ ID NO:367), FxxxDxxxxYD (amino acids 795-805 of SEQ ID NO:4), GIPQGS (amino acids 703-708 of SEQ ID NO:69), LLLRL (amino acids 253-257 of SEQ ID NO:100), DDFL (amino acids 3-6 of SEQ ID NO:6), or WxGxxxxxxxxL.

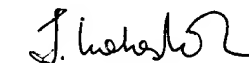
REMARKS

Applicants request entry of this amendment in adherence with 37 C.F.R. § 1.821-1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-477, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk. Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE".

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,



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